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# PATENT ABSTRACTS OF JAPAN

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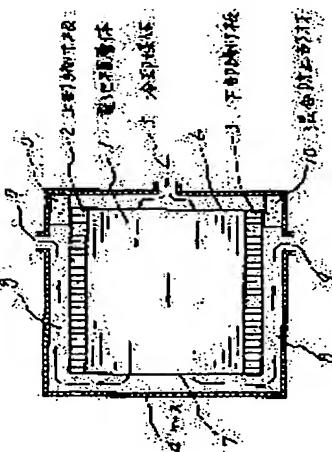
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**(54) FUEL CELL**

(57) Abstract:

**PURPOSE:** To increase temperature of unit cells near fastening plates to decrease temperature distribution in a stacked direction of a fuel cell stack by heating a fastening plate with cooling medium whose temperature is increased by cooling of a cell.

**CONSTITUTION:** A fuel cell stack 1 which is fastened with upper and lower fastening plates 2, 3 is accommodated in a case 4. Air serving as a cooling medium 5 is supplied to one side 6 of the fuel cell stack 1 from the outside, and passes through the fuel cell stack 1. The cooling medium whose temperature is increased by taking heat from the fuel cell stack 1 is discharged to the other side 7 of the fuel cell stack 1. The cooling medium is divided into the upper stream and the lower stream inside the case 4 and flows through spaces 8 formed by the case and the upper fastening plate 2 and the case 4 and the lower fastening plate 3 respectively, then exhausted from exhausting parts 9. Thereby heat insulating effect in the fastening part is increased, and heat radiation from the fastening plate is distribution in a stacked direction of fuel cell stack is de-



## **LEGAL STATUS**

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